



Polink-2 Plus HRP Anti- Goat DAB Detection Kit

(2-step Polymer-HRP detection system, biotin-free,)

Polymer Detection System with Super Sensitivity and Specificity

G. 100G	Catalog No.		110 ml (No DAB chromogen)
Storage: 4-8°C		D43-18	18 ml (with DAB, good for 180 slides)
		D43-6	6 ml (with DAB, good for 50 slides)
		☐ D43-1L	1000 ml (bulk, w/o chromogen)

Intended Use:

Polink-2 Plus HRP anti Goat DAB Detection Kit is the 3rd generation of polymer detection system. It uses Goat antibody specific enhancer to help amplify the polymer-enzyme conjugate reaction to achieve super sensitivity and specificity in immunohistochemistry staining. It produces consistent immunostaining outcomes on archival tissues and on difficult-to-work antibodies. User may need to further dilute primary antibody due to super sensitivity of Polink-2 Plus detection system. Polink-2 Plus HRP anti Goat DAB Detection Kit does not cross react with bovine IgG. It is compatible with BSA containing diluent or blocking buffer. It is a biotin-free system, therefore, overcomes the non-specific staining caused by streptavidin/biotin system due to endogenous biotin. Most commonly used specimens for this system are: frozen tissue, paraffin-embedded tissue, freshly prepared lymphocytes and fixed culture cells. It can be used for manual stain or autostainer. Staining conditions need to be optimized by user.

Polink-2 Plus HRP for DAB Detection System offers a wide choice for primary antibodies, including broad spectrum (for mouse and rabbit primary antibodies), mouse, rabbit, goat, and rat primary antibodies. Refer to **Related Product** section for details.

Kit components:

Catalog No.	Product Name	Reagent 1: Goat Ab. Enhancer (Ready-to-use)	Reagent 2: Polymer HRP for Goat (Ready-to-use)	Reagent3A, 3B: 3A: DAB Substrate (Ready-to-use) 3B: DAB Chromogen Concentrate
D43-110	Polink-2 Plus HRP Goat for DAB Bulk kit	110ml	110ml	Not included
D43-18	Polink-2 Plus HRP Goat DAB 18ml kit	18ml	18ml	30ml of DAB Substrate 3A 2ml of DAB Chromgen 3B
D43-6	Polink-2 Plus HRP Goat DAB 6ml kit	6ml	6ml	12ml of DAB Substrate 3A 1.5ml of DAB Chromgen 3B

Recommended Protocol:

- 1. Fixation: To ensure the quality of the staining and obtain reproducible performance, user needs to supply appropriately fixed tissue and well prepared slides.
- 2. Tissue need to be adhered to the slide tightly to avoid tissue falling off.
- 3. Paraffin embedded section must be deparaffinized with xylene and rehydrated with a graded series of ethanol before staining.
- 4. Cell smear samples should be made as much monolayer as possible to obtain satisfactory results.
- Investigator needs to optimize dilution and incubation times for primary antibodies.
- Three control slides will aid the interpretation of the result: positive tissue control, reagent control (slides treated with Isotype control reagent), and negative control.
- 7. Staining steps: DO NOT let specimen or tissue dry from this point on.

Reagent	Staining Procedure	Incubation Time (Min.)
1. PEROXIDASE BLOCKING	BLOCKING a. Incubate slides in PEROXIDASE BLOCKING REAGENT (Ready-to-use 3% H ₂ O ₂	
REAGENT. Supplied by user	T. Supplied by user solution) for 10 minutes.	
	b. Rinse the slide using distilled water.	
2. HIER PRETREATMENT:	a. Heat Induced Epitope Retrieval (HIER) may be required for primary antibody	
	suggested by vendor. Please check the data sheet of primary antibody	
	b. Wash with PBS 2 min., 3 times.	
3. PRIMARY ANTIBODY	a. Apply 2 drops (100 µL) or enough volume of PRIMARY ANTIBODY to cover the	30-60
Supplied by user	tissue section completely. Incubate in moist chamber for 30-60 min.	
	b. Rinse with PBS for 2 min., 3 times.	

4. Goat Antibody Enhancer (Ready-to-	a. Apply 2 drops (100 µL) or enough volume of Goat Antibody Enhancer to cover	10-30
use).	each section. Incubate in moist chamber for 10-30 min.	
Reagent 1	(We recommend incubating the antibody enhancer up to 30mins for best	
	sensitivity)	
	b. Rinse with PBS for 2 min., 3 times.	
5. POLYMER-HRP for Goat (Ready-to-	a. Apply 2 drops (100 µL) or enough volume of POLYMER-HRP for GOAT to cover	10-30
use)	each section. Incubate in moist chamber for 10-30 min.	
Reagent 2	(We recommend incubating the polymer up to 30mins for best sensitivity)	
	b. Rinse with PBS for 2 min, 3 times.	
6. CHROMOGEN	a. Add 1 drop or 2 drops (for higher sensitivity and contrast) of Reagent 3B into 1ml of	5
Reagent 3A: DAB Substrate	reagent 3A. Mix well. Protect from light and use within 5 hours.	
Reagent 3B: DAB Chromogen	b. Apply 2 drops (100 μ L) or enough to completely cover tissue, of pre-mixed DAB to	
	each section. Incubate for about 5 min. Monitor the color development under	
	microscope.	
	c. Rinse with tap water for 1-2 min.	
7. HEMATOXYLIN	a. Counterstain with 2 drops (100 ul) or enough volume of Hematoxylin to cover	15-20
Supplied by user	tissue completely and wait about 15-20 seconds.	seconds
	b. Rinse well under tap water for 1-2 minutes.	
	c. Put slides in PBS until show blue color (about 30-60 seconds).	
	d. Rinse well in distill or tap water	
8. Mounting medium:	Follow the manufacture data sheet procedure for mounting.	Refer to insert
Supplied by user	Recommended product:	
	1. GB-Mount: Cat. No. E01-18 (18ml), for alcohol soluble substrates (DAB, AP-Red,	
	and AP-blue)	
	2. O-Mount: Cat. No. E02-18 (18ml), for DAB and BCIP/NBT	
	3. Simpo-Mount: Cat.No. E03-18 (18ml), or E03-100 (100ml), universal permanent	
	mounting medium. Can be used with or without cover slip	

Protocol Notes:

The fixation, tissue slide thickness, and primary antibody dilution and incubation time effect results significantly. Investigator needs to consider all factors and determine optimal conditions when interpret the result.

Related Products:

Product	Catalog No.	Size	Product	Catalog No.	Size
Polink-2 Plus HRP Mouse for DAB bulk	D37-110	110ml	Polink-2 Plus HRP Rat-NM for DAB (No	D46-110	110ml
kit (without chromogen)			mouse) Bulk kit (without chromogen)		
Polink-2 Plus HRP Mouse DAB kit	D37-18	18ml	Polink-2 Plus HRP Rat-NM (No mouse)	D46-18	18ml
	D37-6	6ml	DAB kit	D46-6	6ml
Polink-2 Plus HRP Rabbit for DAB Bulk	D39-110	110ml	Polink-2 Plus HRP Mouse-NR (No Rat)	D58-110	110ml
Kit (without chromogen)			Bulk kit (without chromogen)		
Polink-2 Plus HRP Rabbit DAB kit	D39-18	18ml	Polink-2 Plus HRP Mouse-NR (No Rat)	D58-18	18ml
	D39-6	6ml	DAB kit	D58-6	6ml
Polink-2 Plus HRP Broad for DAB Bulk	D41-110	110ml	DAB Kit (20x concentrated)	C01-12	12ml
Kit (Without chromogen. For Ms. & Rb.)					
Polink-2 Plus HRP Broad DAB Kit	D41-18	18ml	DAB+ kit	C09-12	12ml+240ml
(for mouse and Goat antibody)	D41-6	6ml			

Precautious: DAB may be carcinogenic. Please wear gloves and take other necessary precautions.

Remarks: For research use only.